Marri Laxman Reddy Institute of Technology and Management

(UGC Autonomous)

Dundigal, Hyderabad – 500043

Waste Management Policy

With effect from 03rd, September 2018

Waste Management Policy

Introduction

Marri Laxman Reddy Institute of Technology and Management (MLRITM) has made distinctive contributions in the field of environmental protection and sustainability. The institute is committed to minimizing waste generation on campus and ensuring responsible waste management. This policy reflects the institute's moral, social, and legal obligations to foster an eco-friendly and sustainable environment by promoting responsible behaviour in waste generation, segregation, storage, handling, transportation, and disposal.

MLRITM recognizes that sustainable and holistic waste management is essential in reducing its environmental footprint while maintaining a safe and healthy environment for faculty, staff, students, and visitors.

The institute has a duty to ensure that all campus waste is disposed of responsibly through proper segregation at the source, with a focus on converting waste into value-added, environmentally friendly products wherever possible.

Policy Statement

MLRITM will adopt the principles of the Best Practicable Environmental Option in the delivery of its waste management services.

All stakeholders—including teaching and non-teaching staff, students, guests, and visitors—are required to comply with this policy and associated environmental guidelines to ensure adherence to waste management legislation. All solid waste generated on campus will be managed in accordance with the Municipal Solid Wastes (Management and Handling) Rules, 1999, as notified by the Ministry of Environment, Government of India.

This policy envisions a community that is deeply conscious of the human impact on the environment and is committed to building an ecologically healthy, resource-efficient campus, where waste is significantly reduced, reused, recycled, and disposed of through environmentally sound methods.

Policy Objectives

The objectives of this policy are to:

1. Follow the 3R principle—Reduce, Reuse, and Recycle—to promote sustainable development and ecological balance.

2. Ensure compliance with all applicable waste legislation and plan for future regulatory changes.

3. Minimize waste generation at the source and promote repair, reuse, and recycling in a cost-effective manner.

4. Clearly define the roles and responsibilities of all individuals involved in waste management activities.

5. Raise environmental awareness and encourage active participation in waste minimization, reuse, and recycling.

6. Expand recycling infrastructure on campus and promote the conversion of waste into value-added products.

7. Ensure the safe handling and storage of waste across the campus.

8. Educate faculty, staff, and students about methods to reduce waste generation and manage waste responsibly.

9. Maintain a plastic-free campus.

Roles and Responsibilities:

- **Support Staff:**
    - Oversee the daily collection of general and recyclable waste.
    - Monitor contractor performance against agreements.
    - Conduct operational oversight of waste management systems.

- **Heads of Departments:**
    - Ensure the proper disposal of non-hazardous waste via general or recycling streams.
    - Designate responsible individuals for managing hazardous/laboratory waste.

- **Faculty and Staff:**
    - Dispose of waste appropriately by segregating according to policy and procedures.

- **Students:**
    - Use designated bins and adhere to institute guidelines for responsible waste disposal.

Types of Waste and Management Practices

1. Solid Waste Management

MLRITM ensures effective segregation and disposal of both degradable and non-degradable solid waste. Separate bins are placed in every classroom—green for biodegradable and blue for non-biodegradable waste.

Waste is collected at a centralized segregation center, and recyclable materials are sent to agencies with which the institute has signed an MoU. A dedicated collection system and color-coded bins support efficient wet and dry waste segregation:

- **Dry Waste:** Includes paper, plastics, cardboard, glass, and tin cans.

- **Wet Waste:** Primarily includes food waste from the canteen and on-campus food vendors.

2. Liquid Waste Management

Liquid waste from toilets and canteens is treated in a 30 KLD Sewage Treatment Plant (STP). The treated water is reused for flushing and gardening, promoting sustainable water management on campus.

3. E-Waste Management

E-waste includes outdated and obsolete electronics such as:

- Computers, laptops, printers

- Laboratory equipment and instruments

- Network cables, Wi-Fi devices, cartridges, UPS, biometric systems, etc.

These are collected from labs, offices, and administrative units and dispatched monthly to M/s Ramky Environ Engineers Ltd, an authorized e-waste vendor.

4. Biomedical Waste Management

Biomedical waste management at the institute is carried out in strict compliance with relevant health and safety regulations. Waste generated from medical activities, including used syringes, discarded medicines, and other contaminated materials, is carefully segregated, collected, and safely disposed of through an authorized agency with which the institute has an MoU. This ensures the prevention of health hazards and promotes a safe and hygienic campus environment.

5. Hazardous Waste Management

Hazardous chemicals are rarely used on campus. In cases where strong acids or bases are required (e.g., in the Environmental Engineering Laboratory), they are neutralized before discharge. No radioactive materials are used, and thus, no radioactive waste is generated.

Waste Management Practices

- **Sewage Treatment:**
  A 30 KLD STP is in operation. Treated water is used for flushing and gardening.

- **Segregation System:**
  Color-coded bins—Blue for Dry Waste, Green for Wet Waste—are used across the campus.

- **Trash Bin Placement:**
  Adequate numbers of bins are placed at convenient locations across the campus.

- **Waste Disposal Collaboration:**
  MLRITM collaborates with Greater Hyderabad Municipal Corporation (GHMC) for daily waste collection.

- **E-Waste Collection:**
  E-waste is collected and dispatched monthly to **M/s Ramky Environ Engineers Ltd**, Hyderabad.

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